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RAW SEQUENCE LISTING

DATE: 12/12/2002

PATENT APPLICATION: US/09/910,345B

TIME: 15:21:50

Input Set : A:\Nb201700.app

Output Set: N:\CRF4\12122002\I910345B.raw

4 <110> APPLICANT: SHEPARD, H. MICHAEL
 5 LACKEY, DAVID B.
 6 CATHERS, BRIAN E.
 7 SERGEEVA, MARIA V.
 9 <120> TITLE OF INVENTION: METHODS FOR IDENTIFYING THERAPEUTIC TARGETS FOR
 10 TREATING INFECTIOUS DISEASE
 12 <130> FILE REFERENCE: NB-2017.00
 14 <140> CURRENT APPLICATION NUMBER: 09/910,345B
 15 <141> CURRENT FILING DATE: 2001-07-20
 17 <150> PRIOR APPLICATION NUMBER: 60/219,598
 18 <151> PRIOR FILING DATE: 2000-07-20
 20 <150> PRIOR APPLICATION NUMBER: 60/244,953
 21 <151> PRIOR FILING DATE: 2000-11-01
 23 <150> PRIOR APPLICATION NUMBER: 60/276,728
 24 <151> PRIOR FILING DATE: 2001-03-16
 26 <160> NUMBER OF SEQ ID NOS: 12
 28 <170> SOFTWARE: PatentIn 2.1
 30 <210> SEQ ID NO: 1
 31 <211> LENGTH: 60
 32 <212> TYPE: PRT
 33 <213> ORGANISM: Pseudomonas aeruginosea
 35 <220> FEATURE:
 36 <221> NAME/KEY: NON_TER
 37 <222> LOCATION: 1,60
 39 <400> SEQUENCE: 1
 40 Arg Asn Gly Gly Gln Ile Leu Val Glu Ala Leu Arg Arg Asn Ala Val
 41 1 5 10 15
 43 Asp Thr Val Tyr Cys Ile Pro Gly Glu Ser Tyr Leu Pro Val Leu Asp
 44 20 25 30
 46 Ala Leu Tyr Asp Thr Asp Gly Ile Arg Thr Val Val Thr Arg His Glu
 47 35 40 45
 49 Gly Ala Ala Ser Asn Met Ala Asp Ala Tyr Gly Lys
 50 50 55 60
 53 <210> SEQ ID NO: 2
 54 <211> LENGTH: 21
 55 <212> TYPE: PRT
 56 <213> ORGANISM: Artificial Sequence
 58 <220> FEATURE:
 59 <223> OTHER INFORMATION: Description of Artifical Sequence: Sequence comparison
 60 of SEQ ID NO: 1 to SEQ ID NO: 3
 62 <220> FEATURE:
 63 <221> NAME/KEY: NON_CONS
 64 <222> LOCATION: 1-2,3-4,5-6,6-7,7-8,8-9,9-10,10-11,13-14,14-15,18-19

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66 <400> SEQUENCE: 2

67 Arg Gly Gly Leu Arg Val Gly Pro Leu Ala Gly Ile Arg Val Thr Arg

68 1 5 10 15

70 His Glu Ala Asp Ala

71 20

74 <210> SEQ ID NO: 3

75 <211> LENGTH: 59

76 <212> TYPE: PRT

77 <213> ORGANISM: Homo sapiens

79 <220> FEATURE:

80 <221> NAME/KEY: NON_TER

81 <222> LOCATION: 1,59

83 <221> NAME/KEY: NON_CONS

84 <222> LOCATION: (34)...(35)

W--> 86 <400> 3

87 Arg His Gly Gly Glu Asn Val Ala Ala Val Leu Arg Ala His Gly Val

88 1 5 10 15

90 Arg Phe Ile Phe Thr Leu Val Gly Gly His Ile Ser Pro Leu Leu Val

91 20 25 30

93 Ala Cys Glu Lys Leu Gly Ile Arg Val Val Asp Thr Arg His Glu Val

94 35 40 45

96 Thr Gly Val Phe Ala Ala Asp Ala Met Ala Arg

97 50 55

100 <210> SEQ ID NO: 4

101 <211> LENGTH: 60

102 <212> TYPE: PRT

103 <213> ORGANISM: Pseudomonas aeruginosea

105 <220> FEATURE:

106 <221> NAME/KEY: NON_TER

107 <222> LOCATION: 1,60

109 <400> SEQUENCE: 4

110 Leu Thr Gly Arg Pro Gly Ile Cys Phe Val Thr Arg Gly Pro Gly Ala

111 1 5 10 15

113 Thr His Ala Ala Asn Gly Val His Thr Ala Gln Gln Asp Ser Thr Pro

114 20 25 30

116 Met Ile Leu Phe Val Gly Gln Val Glu Ser Ala Phe Lys Gly Arg Glu

117 35 40 45

119 Ala Phe Gln Glu Val Asp Tyr Val Gln Met Phe Ser

120 50 55 60

123 <210> SEQ ID NO: 5

124 <211> LENGTH: 21

125 <212> TYPE: PRT

126 <213> ORGANISM: Artificial Sequence

128 <220> FEATURE:

129 <223> OTHER INFORMATION: Description of Artifical Sequence: Sequence comparison
130 of SEQ ID NO: 4 to SEQ ID NO: 6

132 <220> FEATURE:

133 <221> NAME/KEY: NON_CONS

134 <222> LOCATION: 1-2,2-3,3-4,5-6,8-9,9-10,10-11,12-13,13-14,14-15,15-16,16-17,

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135      17-18,18-19,20-21
137 <400> SEQUENCE: 5
138 Leu Gly Gly Val Thr Gly Pro Gly Thr Val Ala Gln Pro Leu Gly Arg
139 1      5      10      15
141 Ala Gln Val Asp Phe
142      20
145 <210> SEQ ID NO: 6
146 <211> LENGTH: 60
147 <212> TYPE: PRT
148 <213> ORGANISM: Homo sapiens
150 <220> FEATURE:
151 <221> NAME/KEY: NON_TER
152 <222> LOCATION: 1,60
154 <400> SEQUENCE: 6
155 Leu Ser Gly Thr Val Gly Val Ala Ala Val Thr Ala Gly Pro Gly Leu
156 1      5      10      15
158 Thr Asn Thr Val Thr Ala Val Lys Asn Ala Gln Met Ala Gln Ser Pro
159      20      25      30
161 Ile Leu Leu Leu Gly Gly Ala Ala Ser Thr Leu Leu Gln Asn Arg Gly
162      35      40      45
164 Ala Leu Gln Ala Val Asp Gln Leu Ser Leu Phe Arg
165      50      55      60
168 <210> SEQ ID NO: 7
169 <211> LENGTH: 55
170 <212> TYPE: PRT
171 <213> ORGANISM: Pseudomonas aeruginosea
173 <220> FEATURE:
174 <221> NAME/KEY: NON_TER
175 <222> LOCATION: 1,55
177 <400> SEQUENCE: 7
178 Gly Leu Ala Lys Trp Ala Val Glu Ile Asp Arg Ile Glu Arg Ile Pro
179 1      5      10      15
181 Glu Ile Val Gly Arg Ala Phe Ser Val Ala Thr Ser Gly Arg Pro Gly
182      20      25      30
184 Pro Val Val Val Ala Leu Pro Glu Ile Leu Phe Gly Ser Ala Gln
185      35      40      45
187 Val Ala Asp Ala Pro Glu Pro
188      50      55
191 <210> SEQ ID NO: 8
192 <211> LENGTH: 18
193 <212> TYPE: PRT
194 <213> ORGANISM: Artificial Sequence
196 <220> FEATURE:
197 <223> OTHER INFORMATION: Description of Artifical Sequence: Sequence comparison
198      of SEQ ID NO: 7 to SEQ ID NO: 9
200 <220> FEATURE:
201 <221> NAME/KEY: NON_CONS
202 <222> LOCATION: 1-2,2-3,3-4,4-5,5-6,6-7,8-9,12-13,13-14,15-16,16-17,17-18
204 <400> SEQUENCE: 8

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RAW SEQUENCE LISTING

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Input Set : A:\Nb201700.app

Output Set: N:\CRF4\12122002\I910345B.raw

205 Leu Lys Val Arg Ile Ala Ser Gly Pro Gly Pro Val Val Leu Pro Leu
 206 1 5 10 15

208 Val Pro

211 <210> SEQ ID NO: 9

212 <211> LENGTH: 55

213 <212> TYPE: PRT

214 <213> ORGANISM: Homo sapiens

216 <220> FEATURE:

217 <221> NAME/KEY: NON_TER

218 <222> LOCATION: 1,55

220 <221> NAME/KEY: MOD_RES

221 <222> LOCATION: (22)

222 <223> OTHER INFORMATION: Any Amino Acid

W--> 224 <400> 9

225 Pro Leu Cys Lys Phe Cys Val Ser Val Pro Arg Val Arg Asp Ile Val
 226 1 5 10 15

W--> 228 Pro Thr Leu Arg Ala Xaa Met Ala Ala Ala Gln Ser Gly Thr Pro Gly
 229 20 25 30

231 Pro Val Phe Val Glu Leu Pro Val Asp Val Leu Tyr Pro Phe Phe Met
 232 35 40 45

234 Val Gln Lys Glu Met Val Pro
 235 50 55

238 <210> SEQ ID NO: 10

239 <211> LENGTH: 54

240 <212> TYPE: PRT

241 <213> ORGANISM: Pseudomonas aeruginosea

243 <220> FEATURE:

244 <221> NAME/KEY: NON_TER

245 <222> LOCATION: 1,54

247 <400> SEQUENCE: 10

248 Leu Leu Leu Glu Asn Glu Pro Gly Ala Leu Ser Arg Val Val Gly Leu
 249 1 5 10 15

251 Phe Ser Gln Arg Asn Tyr Asn Ile Glu Ser Leu Thr Val Ala Pro Thr
 252 20 25 30

254 Glu Asp Pro Thr Leu Ser Arg Leu Thr Leu Thr Thr Val Gly His Asp
 255 35 40 45

257 Glu Val Ile Glu Gln Ile
 258 50

261 <210> SEQ ID NO: 11

262 <211> LENGTH: 18

263 <212> TYPE: PRT

C--> 264 <213> ORGANISM: Artificial Sequence

266 <220> FEATURE:

267 <223> OTHER INFORMATION: Description of Artifical Sequence: Sequence comparison
 268 of SEQ ID NO: 10 to SEQ ID NO: 12

270 <220> FEATURE:

271 <221> NAME/KEY: NON_CONS

272 <222> LOCATION: 3-4,5-6,6-7,8-9,9-10,10-11,12-13,13-14,15-16,17-18

274 <400> SEQUENCE: 11

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/910,345B

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TIME: 15:21:50

Input Set : A:\Nb201700.app

Output Set: N:\CRF4\12122002\I910345B.raw

275 Leu Leu Leu Pro Gly Leu Arg Asn Asn Ala Asp Pro Leu Gly His Glu
 276 1 5 10 15

278 Val Ile

281 <210> SEQ ID NO: 12

282 <211> LENGTH: 53

283 <212> TYPE: PRT

284 <213> ORGANISM: Homo sapiens

286 <220> FEATURE:

287 <221> NAME/KEY: NON_TER

288 <222> LOCATION: 1,53

290 <221> NAME/KEY: NON_CONS

291 <222> LOCATION: (42)..(43)

W--> 293 <400> 12

294 Leu Leu Leu Leu Ser Leu Pro Gly Leu Ala Ala Gly Ile Thr Ile Leu
 295 1 5 10 15

297 Leu Thr Asp Arg Asn Leu Asn Thr Thr Phe Phe Asp Pro Ala Gly Gly
 298 20 25 30

300 Gly Asp Pro Ile Leu Tyr Gln His Leu Phe Ile Phe Gly His Pro Glu
 301 35 40 45

303 Val Tyr Asn Arg Ile

304 50

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/910,345B

DATE: 12/12/2002
TIME: 15:21:51

Input Set : A:\Nb201700.app
Output Set: N:\CRF4\12122002\I910345B.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:9; Xaa Pos. 22

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/910,345B

DATE: 12/12/2002

TIME: 15:21:51

Input Set : A:\Nb201700.app

Output Set: N:\CRF4\12122002\I910345B.raw

L:86 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3
L:224 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:9
L:228 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:16
L:264 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:11
L:293 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:12